UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS

P O Box 1450 Alexandria, Virgima 22313-1450 www.usplo.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

25944 7590 05/05/2009

OLIFF & BERRIDGE, PLC P.O. BOX 320850

ALEXANDRIA, VA 22320-4850

EXAMINER NGUYEN, HUNG

ART UNIT PAPER NUMBER

2851 DATE MAILED: 05/05/2009

	10/599 020	09/01/2006	Vuichi Shibazaki	127974	4075	
ı	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	

TITLE OF INVENTION: STAGE DRIVE METHOD AND STAGE UNIT, EXPOSURE APPARATUS, AND DEVICE MANUFACTURING METHOD

APPLN, TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	08/05/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT, PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FFE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This appropriate. All further indicated unless correcte maintenance fee notificat	form should be used I correspondence including d below or directed off tions.	or tran	smitting the ISSU Patent, advance or in Block 1, by (a						tould be completed where correspondence address as rate "FEE ADDRESS" for
	ENCE ADDRESS (Note: Use Bi	ock 1 for	any change of address)	N F P	vote: ee(s aper	A certificate of a Transmittal. This Each additional ts own certificate	mailing s certif l paper of mai	can only be used for icate cannot be used for such as an assignment line or transmission.	domestic mailings of the or any other accompanying at or formal drawing, must
25944	7590 05/05	/2009						of Mailing or Transi	
OLIFF & BER P.O. BOX 32085 ALEXANDRIA				I S au tr	here tates ddre ransr	by certify that thi	is Feets	Transmittal is being	deposited with the United t class mail in an envelope above, or being facsimile tte indicated below.
									(Depositor's name)
									(Signature)
				L					(Date)
APPLICATION NO.	FILING DATE			FIRST NAMED INVENTO	OR		ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
10/588,029	08/01/2006			Yuichi Shibazaki				127874	4075
TITLE OF INVENTION	: STAGE DRIVE METI	HOD A	ND STAGE UNII						HOD
APPLN, TYPE	SMALL ENTITY	IS	SUE FEE DUE	PUBLICATION FEE DU	Œ.	PREV. PAID ISSUE	FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO		\$1510	\$300		\$0		\$1810	08/05/2009
EXAM	INER		ART UNIT	CLASS-SUBCLASS					
NGUYEN	, HUNG		285I	355-072000					
"Fee Address" indi PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME A	ess an assignee is ident h in 37 CFR 3.II. Comp	" Indicated. Us	ation form e of a Customer E PRINTED ON		ative ngle or ag utorr be p type type e pat an as	firm (having as a ent) and the name eys or agents. If a rinted.) ent. If an assigne signment.	memb es of up no nam ee is id	er a 2 p to e is 3	ocument has been filed for
Please check the appropri	iate assignee category or	catego	ories (will not be pr	inted on the patent):	O i	ndividual 🔲 Co	rporati	on or other private gro	up entity Government
Advance Order - #	o small entity discount j		ed)	o. Payment of Fee(s): (P A check is enclosed Payment by credit of The Director is here overpayment, to De	d. card. eby a	Form PTO-2038 authorized to chan	is atta	ched. required fee(s), any de	
	s SMALL ENTITY state	ıs. See	37 CFR 1.27.	☐ b. Applicant is no l	longe	er claiming SMAI	LENT	TITY status. See 37 CI	R 1.27(g)(2).
interest as shown by the r	d Publication Fee (if req records of the United Sta	uired) tes Pat	will not be accepted ent and Trademark	Office.	ın the	applicant; a regi	stered a	ittorney or agent; or th	e assignee or other party in
Authorized Signature						Date			
Typed or printed name						Registration N			
This collection of inform an application. Confident submitting the completed this form and/or suggesti Box 1450, Alexandria, V Alexandria, Virginia 223	ation is required by 37 C itality is governed by 35 I application form to the ons for reducing this bu irginia 22313-1450. DO 13-1450.	FR 1.3 U.S.C USPT den, sl NOT	11. The informatic . 122 and 37 CFR O. Time will vary hould be sent to the SEND FEES OR	on is required to obtain on the collection is depending upon the interest of the collection of the col	or rel estir divid ficer TO	tain a benefit by the nated to take 12 m dual case. Any co , U.S. Patent and THIS ADDRESS	ne publ ninutes mment Traden SENI	ic which is to file (and to complete, includin s on the amount of tir ark Office, U.S. Depa D TO: Commissioner I	by the USPTO to process) g gathering, preparing, and ne you require to complete atment of Commerce, P.O. for Patents, P.O. Box 1450,

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS

P O Box 1450 Alexandra, Virgima 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/588,029	08/01/2006	Yuichi Shibazaki	127874	4075		
25944 75	90 05/05/2009	EXAMINER				
OLIFF & BERRI	IDGE, PLC	NGUYEN, HUNG				
P.O. BOX 320850		ART UNIT	PAPER NUMBER			
ALEXANDRIA, V	A 22320-4850		2851			

DATE MAILED: 05/05/2009

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 248 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 248 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Application No. Applicant(s) 10/588 029 SHIBAZAKI, YUICHI Notice of Allowability Examiner Art Unit Hung Henry V. Nauven 2851 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. This communication is responsive to 3/3/09. The allowed claim(s) is/are 44-47, 51, 53-61, 75-89. 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). b) ☐ Some* c) ☐ None of the: a) 🔯 All 1. A Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: _____. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. | Notice of References Cited (PTO-892) 5. Notice of Informal Patent Application 2. Notice of Draftperson's Patent Drawing Review (PTO-948) Interview Summary (PTO-413), Paper No./Mail Date Information Disclosure Statements (PTO/SB/08). 7. Examiner's Amendment/Comment Paper No./Mail Date 4. T Examiner's Comment Regarding Requirement for Deposit 8. X Examiner's Statement of Reasons for Allowance of Biological Material 9. ☐ Other . /HUNG HENRY NGUYEN/

ART UNIT 2851

Application/Control Number: 10/588,029 Page 2

Art Unit: 2851

DETAILED ACTION

Reasons for Allowance

1. The following is an examiner's statement of reasons for allowance:

2. Claims 44-47, 51, 53-61, 75-84 have been found to be allowable since the prior art of record either alone or in combination, neither discloses nor makes obvious a combination of a stage device, a corresponding exposure apparatus and corresponding method comprising: among other features, a first stage, a second stage, along with a control unit for controlling the first stage and the second stage so as to simultaneously move the first stage and the second stage in a second axis direction intersecting the first axis direction while one of a state where the first stage and the second stage are close together in the second axis direction and a state where both stages are in contact in the second axis direction is maintained, during a transition from a first state in which one stage of the first stage and the second stage is positioned at the first area to a second state in which the other stage is positioned at the first area, as recited in the instant claims.

Claim 53-61 have been found to be allowable since the prior art of record, either alone or in combination, neither discloses nor makes obvious a combination of an exposure apparatus that supplies a liquid to a space between a projection optical system and a substrate and comprising among other features, a first mark detecting system, a second mark detecting system, along with a stage drive system for driving a first stage and a second stage, and satisfying conditions as recited in the mentioned claims.

3. Claims 85-89 have been found to be allowable since the prior art of record, either alone or in combination, neither discloses nor makes obvious an immersion exposure apparatus comprising among other features, a first stage, a second stage, a suppressing member, along with

Application/Control Number: 10/588,029

Art Unit: 2851

a stage drive system for driving the first stage and the second stage simultaneously in a predetermined direction while a state where the first stage and the second stage are close together in the predetermined direction and a state where both stages are simultaneously driven and are in contact in the second axis direction is maintained during a transition from a first state in which one stage of the first stage and the second stage is positioned in the first area to a second state in which the other stage is positioned in the first area, as recited in the instant claims.

Applicant's arguments filed March 3, 2009 are found persuasive and incorporated herein by references.

- 4. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."
- Any inquiry concerning this communication or earlier communications from the
 examiner should be directed to Hung Henry V. Nguyen whose telephone number is 571-2722124. The examiner can normally be reached on Monday-Friday (First Friday off).
- If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Diane Lee can be reached on 571-272-2399. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2851

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Hung Henry Nguyen/ Primary Examiner Art Unit 2851

hvn 4/25/09